

Design Spot 575B

Elation Professional 6122 S. Eastern Ave Los Angeles, Ca. 90040





CONTENTS

1.	General Information4						
	a.	Introduction	. 4				
	b.	Customer Support	3				
	C.	Warranty Registration	. 5				
	d.	Discharge Lamp Warning	. 5				
2.	Safety	Instructions	. 7				
3.	Featur	es	.9				
4.	Gener	al Guidelines	. 10				
5.	Lamp	Installation	. 11				
	a.	Lamp installation	11				
	b.	Lamp optimization	.12				
6.	Mount	ng and Installation	14				
	a.	Mounting Positions	. 14				
	b.	Mounting Points	. 15				
	C.	Securing	. 16				
7.	Under	standing DMX	. 17				
	a.	DMX Linking	. 17				
	b.	DMX Cable Requirements	. 17				
	C.	DMX Termination	. 19				
	d.	DMX Addressing	. 19				
8.	Fixture	Menu	. 21				
	a.	Menu functions	23				
9.	Menu Functions						
10.	DMX Addressing						
11.	Operation						
12.	Workir	ng with Built-In Programs	. 36				
13.	DMX (Channel Traits	. 39				
14.	Fuse F	Replacement	.43				
15.	Error (Codes	.44				
16.	Cleani	ng and Maintenance	. 47				
17.	Warra	nty	. 48				
18.	B. Photometric Data						
19.	. Gobo Patterns51						
20.	Dimensional Drawings						
21.	Circuit Schematic53						
22.	2. Technical Specifications						



1. GENERAL INFORMATION

INTRODUCTION: Congratulations, you have just purchased one of the most innovative and reliable lighting fixtures on the market today! The Design Spot 575B,™ has been designed to perform reliably for years when the guidelines in this booklet are followed. Please read and understand the instructions in this manual carefully and thoroughly before attempting to operate this unit. These instructions contain important information regarding safety during use and maintenance.

UNPACKING: Thank you for purchasing the Design Spot 575B™ by Elation Professional®. Every Design Spot 575B™ has been thoroughly tested and has been shipped in perfect operating condition. Carefully check the shipping carton for damage that may have occurred during shipping. If the carton appears to be damaged, carefully inspect your unit for damage and be sure all accessories necessary to operate the unit have arrived intact. In the event damage has been found or parts are missing, please contact our customer support team for further instructions. Please do not return this unit to your dealer without first contacting customer support at the number listed below.

CUSTOMER SUPPORT: Elation Professional® provides a customer support line, to provide set up help and to answer any question should you encounter problems during your set up or initial operation. You may also visit us on the web at www.elationlighting.com for any comments or suggestions. For service related issue please contact Elation Professional®. Service Hours are Monday through Friday 9:00 a.m. to 5:00 p.m. Pacific Standard Time.

Voice: (323) 582-3322 Fax: (323) 832-9142

E-mail: support@elationlighting.com
Forum: www.ElationLighting.com/
forum

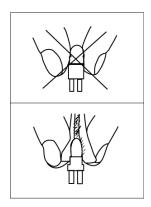
Warning! To prevent or reduce the risk of electrical shock or fire, do not expose this unit to rain or moisture.

Caution! There are no user serviceable parts inside this unit. Do not attempt any repairs yourself, doing so will void your manufactures warranty.



Please do not discard the shipping carton in the trash, keep for warranty repair. Please recycle whenever possible.

WARRANTY REGISTRATION: The Design Spot 575B™ carries a two year (730 days) limited warranty. Please fill out the enclosed warranty card to validate your purchase. All returned service items whether under warranty or not, must be freight pre-paid and accompany a return authorization (R.A.) number. The R.A. number must be clearly written on the outside of the return package. A brief description of the problem as well as the R.A. number must also be written down on a piece of paper and included in the shipping container. If the unit is under warranty, you must provide a copy of your proof of purchase invoice. Items returned without a R.A. number clearly marked on the outside of the package will be refused and returned at customer's expense. You may obtain a R.A. number by contacting customer support at (323) 213-4593.



DISCHARGE LAMP WARNING: This fixture is fitted with a discharge lamp, which is highly susceptible to damage if improperly handled. Never touch the lamp with your bare hands, as the oil from your hands will shorten lamp life. Also, never move the fixture until the lamp has had ample time to cool. Remember, lamps are not covered under warranty conditions.

UV RADIATION: This fixture emits intense UV radiation, which is harmful to the eyes and skin. The intense luminance of the lamp can cause severe damage to the retina. Never operate this fixture with the protective covers removed, these covers have been specially designed to shield against UV radiation.

Epileptic Warning: Those suffering from epilepsy should avoid looking directly into the lamp at all times.

Avoid switching the fixture on and off repeatedly in short intervals, as this will reduce lamp life and intensity.

To achieve the intensity associated with discharge lamps, these lamps use a gas sealed in a



high-pressure environment to emit a brilliant output. Due to the high pressure involved with the construction of the lamp, the lamp may explode during prolonged extensive use. This risk is increased with age; added care is encouraged when dealing with older lamps. Thus, lamp should always be replaced at the end of their recommended duty cycle. Extreme caution should be used when operated this or any fixture fitted with a gas discharge lamp.

Never open this fixture while in use!

During the initial operation of this fixture, a light smoke or smell may emit from the interior of the fixture. This is a normal process and is caused by excess paint in the interior of the casing burning off from the heat associated with the lamp and will decrease gradually over time.

This device falls under protection-class 1. Therefore it is essential that the device be grounded properly.

Only qualified personnel should perform all electrical connections.

Be sure the available voltage matches the voltage requirements of the unit.

Be sure the power cord is never crimped or damaged. If the power cord is damaged, replace it immediately with a new one of similar power rating.

Always disconnect from main power before performing any type of service or any cleaning procedure.

Only handle the power cord by the plug. Never pull out the plug by tugging the wire portion of the cord.

Please be aware that damages caused by manual modifications to the device are not subject to warranty.



2. SAFETY INSTRUCTIONS



The Design Spot 575B™ is an extremely sophisticated piece of electronic equipment. To guarantee a smooth operation, it is important to follow the guidelines in this manual. The manufacturer of this device will not accept responsibility for damages resulting from the misuse of this fixture due to the disregard of the information printed in this manual.

- Always be sure that the fan and the air inlets remain clean and are never blocked.
 Allow about 6" (15cm) between this fixture and other devices or a wall to allow for proper cooling.
- 2. Never touch the fixture during normal operation. This can cause severe personal injuries and/or damage to the fixture.
- 3. Be sure to unplug the Design Spot 575B[™] from the power outlet before performing any service related issues.
- 4. Lamp Replacement; Allow at least 30 minutes after disconnecting main power before you open the Design Spot 575B™. To prevent personal injury, never touch the lamp if you are not absolutely sure it has cooled.
- 5. Never look directly into the lamp beam. You risk injury to your retina, which may induce blindness.
- 6. Be sure to track and record the lamp running time. The lamp should be changed at the end of the specified lamp life, regardless of lamp output. You may also have to change the lamp if it shows any deformations or damage. The same is with all glass components, color filters, lenses and mirrors.
- 7. For safe operation, follow the Installation guide described in chapter five of this manual. Operating the Design Spot 575B™ without suited safety aids such as safety cables or clamps can increase the risk of damage and/or personal injury.
- 8. Qualified and certified personnel should only perform installation.
- 9. When mounting this fixture, use only the original rigging parts included with this fixture. Any structural modification will void the original manufactures warranty and



may increase the risk of damage and/or personal injury.

- To reduce the risk of fire or electric shock, do not expose this fixture to rain or moisture.
- 11. Do not attempt to operate this fixture if the power cord has become damaged or frayed.

Important Notice: Damages resulting from the disregard of safety and general user instructions found in this user manual are not subject to any warranty claims.

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3. FEATURES

- Pan 630° or 540° (User selectable) / Tilt 265°
- Built-In Macros (Gobo, Prism)
- 3 operation mode: DMX Controlled, Stand-Alone or Sound Activated
- Color Wheel: 8 colors plus white (including UV, CTC, and CTO filters)
- Easy to Navigate On-Board LCD Menu (may be turned 180°)
- Two Gobos Wheels:
 - Wheel 1) Rotating gobo wheel with 6 rotating gobos plus open, all gobos can be easily replaceable and gobo indexing
 - Wheel 2) Fixed gobo wheel with 6 rotating gobos plus open
- Strobe Effect: 0~10 flashes per second or random strobe
- Motorized Focus (Near to Far)
- Prism and Prism Rotation, with 16 prism macros (Indexable)
- Bright Phillips MSR 575/2 Lamp (575w / 7200K / 1000Hrs / 43,000Lm)
- Linear Dimmer from 0%~100%
- RDMX (Remote DMX addressing from any DMX console)
- Auto test for all functions
- Automatic Pan/Tilt Correction
- Built-in Iris (5% ~ 100% Seamless), with Iris Pulse Effect
- Glass Dichroic Reflector for Even Lamp Output
- USITT DMX-512 Compliant
 - 15 DMX Channels (16bit Operation)
 - 13 DMX Channels (8bit Operation)
 - 20 DMX Channels (Extended)
- 10 User Assignable Program Presets Internal Program: Edit and save programs to the incorporated EPROM. Maximum of 64 scenes.



4. GENERAL GUIDELINES

This fixture is a professional lighting effect designed for use on stage, in nightclubs, in theatres, etc. Do not attempt operation or installation without a proper knowledge on how to do so.

This fixture was designed for indoor use only.

Consistent operational breaks may ensure that the fixture will function properly for many years to come.

Do not shake the fixture around. Avoid brute force when installing or operating the device.

While choosing an installation location, please be sure that the fixture will not be exposed to extreme heat, moisture or dust. The minimum distance between the fixture and a wall or flat surface should be at least 0.5 meter (about 1.5ft).

Always install the fixture with an appropriate safety cable. When installing the fixture in a suspended environment always be sure to use mounting hardware no less than $M10 \times 25$ mm, also be sure the hardware is insert in the pre-arranged screw holes in the base of the fixture.

When using the quick release "Omega" cam-lock system, be sure the four quick lock fasteners are locked in the quick lock holes correctly.

Do not attempt to operate this fixture until you have familiarized yourself with its functions.

Do not permit operation by persons not qualified for operating this type of theatrical fixture, most damages are the result of operations by nonprofessionals.

If possible, please use the original packaging to transport the fixture in for service.



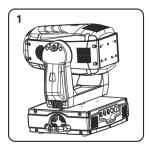
5. LAMP INSTALLATION INSTRUCTIONS

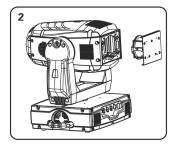
For a proper and safe lamp change, please read this chapter carefully and follow all instructions.

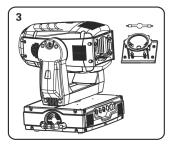
Safety Regulations

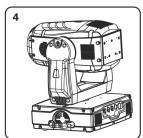
- Disconnect the unit's main power supply.
- Allow the unit to cool for at least 30 minutes before attempting any type of service.
- Before you put the Design Spot 575B™ into operation be sure all covers have been replaced, otherwise you risk damage to the retina and expose to UV radiation!
- Replace the lamp with an approved replacement type. Be sure to follow all the lamp handling procedures included with your new lamp. Never handle the new lamp with your bare hands as the oils from your skin may damage the lamp. Always replace with a lamp that meets the original lamp specification, failure to do so may damage the unit and will void your manufactures warranty.

Installation Procedure:



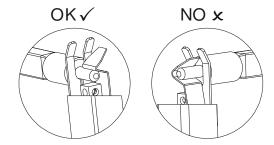






- 1. Set the fixture on a flat surface and remove the four screws labeled "A" "B," "C," and "D" found on the back plate of the head assembly.
- 2. Gently pull out the lamp/socket assembly to access the lamp.
- 3. Gently remove the old lamp by grasping it by metal ends.
- 4. Insert the new lamp securely, locking the lamp in place as illustrated in the diagram on the next page. Orientate the lamp filler tube towards the backside of the reflector. Before reassembling the unit, be sure the new lamp is securely seated in the lamp socket. Always be sure to only use specified lamp types! (MSR 575 lamp or equivalent).





- 5. Once the lamp has been inserted into the socket, gently slide the socket assembly back into place and secure with the four retaining screws.
- 6. Reset the lamp run time in the system menu.
- 7. Always be sure to optimize the lamp after lamp replacement.



CAUTION!

Do not operate this device with open cover

Lamp Optimization

The lamp orientation and optimization must be adjusted after every lamp change. This procedure centers the lamp in the reflector. Proper optimization will increase lamp life and ensure a bright, crisp, and even output. Improper optimization may add a yellow tint to the lamp output and reduce intensity. The minimum deviation amount is 1.0mm. Running the fixture within a lower deviation can cause damage to the lamp and/or lens.

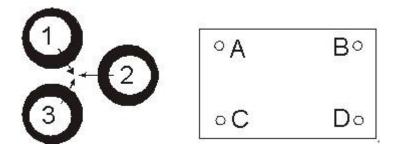
The **Design Spot 575B™** lamp holder is aligned at the factory. However, due to slight imperfections in all lamps, fine adjustments will improve light performance. Please follow the procedure below for proper lamp optimization:

- 1. Using either a DMX controller or the control panel on the unit, strike the lamp and focus the light on a flat surface (beam open, white, no gobo, no effect).
- 2. Center the hot-spot (the brightest part of the beam) using the 3 adjustment screws labeled 1, 2, and 3 as illustrated on the next page. Turn one screw at a time to drag the hot-spot diagonally across the projected image. If you cannot detect a hot-spot, adjust the lamp until the light is even.
- 3. To reduce a hot-spot, pull the lamp in by turning all three screws clockwise a 1/4-turn



at a time until the light is evenly distributed.

4. If the light is brighter around the edge than it is in the center, or if light output is low, the lamp is too far back in the reflector. "Push" the lamp out by turning each of the adjustment screws ("1, 2, 3") counterclockwise. Turn until the light is bright and evenly distributed throughout the beam field.



Please remember that a MSR 575 lamp is not a hot-strike lamp therefore, you must wait approximately 15 minutes before you can attempt to strike the lamp once it has been turned off.



6. MOUNTING AND INSTALLATION

Cautions:

For added protection mount the fixtures in areas outside walking paths, seating areas, or in areas were unauthorized personnel might reach the fixture.

Before mounting the fixture to any surface, make sure that the installation area can hold a minimum point load of 10 times the device's weight.

Fixture installation must always be secured with a secondary safety attachment, such as an appropriate safety cable.

Never stand directly below the device when mounting, removing, or servicing the fixture.



CAUTION!

Before taking into operation for the first time, the installation has to be approved by an expert.



CAUTION!

When installing the device, make sure there is no highly inflammable material within a distance of min. 0.5m

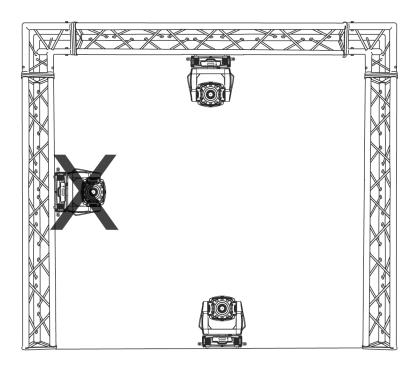
Mounting

The Design Spot 575B™ is fully operational in two different mounting positions, hanging upside-down from a ceiling, or set on a flat level surface (see illustration on next page). Be sure this fixture is kept at least 0.5m (1.5ft) away from any flammable materials (decoration etc.). Always use and install the supplied safety cable as a safety measure to prevent accidental damage and/or injury in the event the clamp fails.



Refer to regulations BGV C1 (formerly VBG 70) and DIN VDE0711-217 for proper installation in Europe To ensure proper installation, only qualified staff should attempt installation.





Mounting points

Overhead mounting requires extensive experience, including amongst others calculating working load limits, a fine knowledge of the installation material being used, and periodic safety inspection of all installation material and the fixture. If you lack these qualifications, do not attempt the installation yourself. Improper installation can result in bodily injury.



CAUTION!

Be sure a qualified electrician performs all electrical connections.

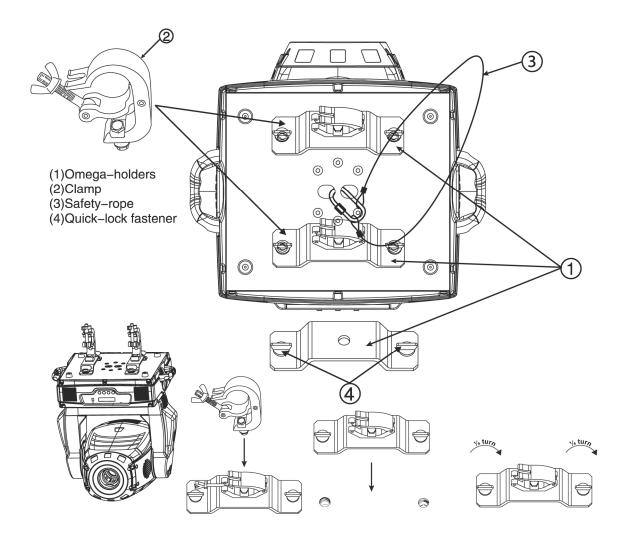
Be sure to complete all rigging and installation procedures before connecting the main power cord to the appropriate wall outlet.

Clamp Mounting

The Design Spot 575B[™] provides a unique mounting bracket assembly that integrates the hanging yoke as well as the safety cable rigging point in one unit (see the illustration on the next page). When mounting this fixture to truss be sure to secure an appropriately rated clamp to the hanging yoke using a M10 screw fitted through the center hole of the hanging



yoke. As an added safety measure be sure to attached at least one properly rated safety cable to the fixture using on of the safety cable rigging point integrated in the bracket assembly



Securing the Design Spot 575B™

Regardless of the rigging option you choose for your Design Spot 575B[™] always be sure to secure your fixture with a safety cable. The fixture provides a built-in rigging point for a safety cable on the hanging bracket as illustrated above. Be sure to only use the designated rigging point for the safety cable and never secure a safety cable to a carrying handle.



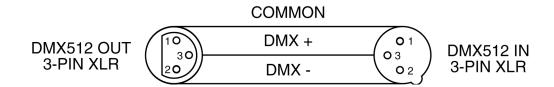
7. UNDERSTANDING DMX

DMX-512: DMX is short for Digital Multiplex. This is a universal protocol used by most lighting and controller manufactures as a form of communication between intelligent fixtures and controllers. DMX allows all makes and models of different manufactures to be linked together and operate from a single controller. This is possible as long as all the fixtures and the controller are DMX compliant. A DMX controller sends the DMX data instructions to the fixture allowing the user to control the different aspects of an intelligent light. DMX data is sent out as serial data that travels from fixture to fixture via data "IN" and data "OUT" XLR terminals located on the fixtures (most controllers will only have output jacks).

DMX Linking: To ensure proper DMX data transmission always use proper DMX cables and a terminator. When using several DMX fixtures try to use the shortest cable path possible. Never split a DMX line with a "Y" style connector. The order in which the fixtures are connected in a DMX line does not influence the DMX addressing. For example; a fixture assigned a DMX address of 1 may be placed anywhere in the DMX chain, at the beginning, at the end, or anywhere in the middle. The DMX controller knows to send data assigned to address 1 to that fixture no matter where it is located in the DMX chain. The Design Spot 575B™ can be controlled via DMX-512 protocol. The Design Spot 575B™ is a 15-channel DMX fixture. The DMX address is set electronically using the controls on the LCD menu.

Data Cable (DMX Cable) Requirements (For DMX and Master/Slave Operation): Your fixture and your DMX controller require a standard 3-pin or 5-pin XLR connector for data input and data output (the figure below is of a 3-Pin XLR connector). If you are making your own cables, be sure to use two conductor shielded digital DMX cable rated at 120 ohms; this cable is designed for DMX transmission and may be purchased from your Elation dealer or at most professional lighting retailers. Your cables should be made with a male and female XLR connector on either end of the cable. A DMX line must be daisy chained and cannot be split, unless using an approved DMX splitter such as the Elation Opto Branch 4™ or DMX Branch/4™.





Be sure to follow the above figure when making your own cables. Do not use the ground lug on the XLR connector. Do not connect the cable's shield conductor to the ground lug or allow the shield conductor to come in contact with the XLR's outer casing. Grounding the shield could cause a short circuit and erratic behavior.





DMX Input 3-Pin XLR Socket



1: Ground 2: Data (-) 3: Data (+)

DMX Output 5-Pin XLR Socket



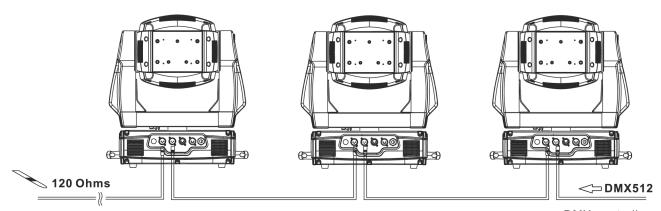
DMX Input 5-Pin XLR Socket



1: Ground 2: Data (-) 3: Data (+) 4: Open 5: Open

DMX-512 control connection

Connect the provided XLR cable to the female 3-pin XLR output of your controller and the other side to the male 3-pin XLR input of the moving head (Please refer to the diagram below.). You can chain multiple moving heads together through serial linking. The cable that should be used is two conductor, shielded DMX cable with XLR input and output connectors. Remember to daisy chain your "in" and "out" data connections, never split or "Y" your DMX connections unless you are using an approved DMX splitter such as the Elation Opto Branch 4^{TM} or DMX Branch/ 4^{TM} .

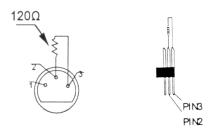


DMX-controller



DMX-512 connection with DMX terminator

A DMX terminator should be used in all DMX lines especially in longer runs. The use of a terminator may avoid erratic behavior in your DMX line. A terminator is a 120 ohm 1/4 watt resistor that is connected between pins 2 and 3 of a male XLR connector (DATA + and DATA -). This fixture is inserted in the female XLR connector of the last fixture in your daisy chain to terminate the line. Using a *line terminator (Elation part: DMX T PACK) will decrease the possibilities of erratic behavior.*



Termination reduces signal errors and avoids signal transmission problems and interference. It is always advisable to connect a DMX terminal, (Resistance 120 Ohm 1/4 W) between PIN 2 (DMX-) and PIN 3 (DMX +) of the last fixture.

5-Pin XLR DMX Connectors. Some manufactures use 5-pin XLR connectors for DATA transmission in place of 3-pin. 5-pin XLR fixtures may be implemented in a 3-pin XLR DMX line. When inserting standard 5-pin XLR connectors in to a 3-pin line a cable adaptor must be used, these adaptors are readily available at most electric stores. The following chart details a proper cable conversion.

3-Pin XLR to 5-Pin XLR Conversion							
Conductor	3-Pin XLR Female (Out)	5-Pin XLR Male (In)					
Ground/Shield	Pin 1	Pin 1					
Data Compliment (- signal)	Pin 2	Pin 2					
Data True (+ signal)	Pin 3	Pin 3					
Not Used		Pin 4 - Do Not Use					
Not Used		Pin 5 - Do Not Use					

Fixture DMX addressing;

All fixtures should be given a DMX starting address when using a DMX controller, so the correct fixture responds to the correct control signal. This digital starting address is the



channel number from which the fixture starts to "listen" to the digital control information sent out from the DMX controller. The allocation of this starting DMX address is achieved by setting the correct DMX address on the digital display located on the head of the fixture.

You can set the same starting address for all fixtures or a group of fixtures, or set different address for each individual fixture. Be advised that setting all you fixtures to the same DMX address will subsequently control all fixtures in the same fashion, in other words, changing the settings of one channel will affect all the fixtures simultaneously.

If you set each fixture to a different DMX address, each unit will start to "listen" to the channel number you have set, based on the quantity of control channels (DMX channels) of each fixture. That means changing the settings of one channel will only affect the selected fixture.

In the case of the Design Spot $575B^{TM}$, which is a 15 channel fixture, you should set the starting DMX address of the first unit to 1, the second unit to 16 (15 + 1), the third unit to 31 (15 + 16), and so on.

Note: During start-up the Design Spot 575B[™] will automatically detect whether a DMX data signal is being received or not. If DMX data signal is being received, the display will show "Addr=XXX" (XXX representing the actual DMX address). If the fixture is not receiving a DMX signal the display will flash. If your fixture is connected to a DMX controller and the display is flashing (not receiving a DMX signal), please check the following:

- The 3-PIN or 5-PIN XLR input plug (cable with DMX signal from controller) is not connected or is not inserted completely into the DMX input jack of the fixture.
- The DMX controller is switched off or defective.
- The DMX cable or connector is defective.
- A DMX terminator has been inserted into the last fixture in your DMX chain.



8. FIXTURE MENU

On-Board System Menu: The Design Spot 575B™ comes with an easy to navigate system menu. This next section will detail the functions of each command in the system menu.

LCD Control Panel: The control panel located on the side of the fixture allows you to access the main menu and make necessary adjustments to the Design Spot 575B™. During normal operation, tapping the "MODE/ESC" key once will access the fixture's main menu. Once in the main menu you can navigate through the different functions and access the sub-menus with the Up and Down buttons. Once you reach a field that requires adjusting, tap the ENTER button to activate that field and use the UP and Down button to adjust the field. Tapping the Enter button once more will confirm your setting. You may exit the main menu at any time without making any adjustments by tapping the MODE/ESC button.

	Set DMX Address		A001~AXXX		DMX address setting	
Function Mode	Value Display		PAN		DMX value displ	ay
	Set To Slave		Slave1,Slave2,Slave3		Slave setting	
Fu	Auto Program		Master / Alone			
	Music Control		Master / Alone		Music control	
	Time Information	Current Time		XXXX(Hours)	Power on running	g time
	Tota		Life Hours	XXXX(Hours)	Fixture running time	
	La		un Hours	XXXX(Hours)	Fixture Last times clear	
	L		Hours	XXXX(Hours)	Lamp running time	
on	Lamı		Off Time	XXXX(Minute)	Lamp off time	
nati	Timer		Password	Password=XXX	Timer Password 038	
Information	Clear		Last Run	ON/OFF	Clear Fixture Last time	
In	L-Tin		er Password	Password=XXX	Lamp	Password
	Clear		Lamp Time	ON/OFF	Code="038"	
					Clear lamp time	
	Temperature Info Head		Temperature	XXX /	Temperature in th	e head
	Software Version V		1.0		Software version	of each IC
	Lamp On or Off O		N/OFF		Lamp on/off	
lo.	Automatic La-On Ol		N/OFF		Lamp on/off when Power on	
Lamp Control	Lamp On Via DMX Ol		N/OFF		Lamp on via DMX	
	Lamp Off Via DMX	Ol	N/OFF		Lamp off via DM	X
	Lamp Off No DMX	OI	FF, 0FF~19M		Lamp off if no D	MX
	Lamp On at Temp.	20	~79 ,45 /68~174 113		Lamp restart at temp.	
	Lamp Off at Temp.	80	-139 , 130 /176~282 , 266		Lamp off at temp.	



Personality	Status Settings Service Setting Fans Control	Address via DMX No DMX Status Pan Reverse Tilt Reverse Pan Degree Feedback Movement Speed Mic Sensitivity Service Password Fan Voltage Gobo Speed Auto Fans Speed		ON/OFF Close/Hold/Auto/Music ON/OFF ON/OFF 630/540 ON/OFF Speed 1~ 4 0~99% Password=XXX High/Low Quick/Slow	Add. via DMX Auto run if no DMX Pan Reverse movement Tilt Reverse movement Pan Degree Select Movement Feedback switch Movement Mode Select Sensitivity of Mic. Service Code"=050" Fan Voltage Select Gobo Change Speed Fans Speed Mode Select
	Display Setting Temperature C/F	High Fans Speed Low Fans Speed Shutoff Time Celsius Fahrenheit		Display shutoff time Temperature switch between /	
	Initial Effect	PAN		PAN =XXX	Initial effect position
	Reset Default	ON/OFF		Restore factory set.	
Reset Function	Reset All Reset Pan&Tilt Reset Colors Reset Gobos Reset Shutter Reset Others			Reset all motors Reset Pan/Tilt Reset color wheel Reset gobos Reset shutter and/or dimmer Reset other motors	
	Test Channel	PAN		Test function	
ect Adjust	Manual Control	PAN :		PAN =XXX	Fine adjustment of the lamp
Effect	Calibrate Values	Password Color wheel		Password=XXX Color wheel=XXX :	Calbrate and adjust the effects to standard/right position Password "050"
Users Mode Set	User Mode	Standard Mode Basic Mode Extended Mode User Mode A User Mode B User Mode C		User's mode to change channel numbers	
Use	Edit User Mode			Channel = XX = CH01	Preset User modes
Progra	Select Programs	Auto Pro Part 1 Program 1 ~ 10 Program 1 Auto Pro Part 2 Program 1 ~ 10 Program 2 Auto Pro Part 3 Program 1 ~ 10 Program 3		Select programs to be run	



	Edit Program	Edit Program 1 Program 1		("STEP XX")	Testing program
	:		Step 01=SCxxx		Program in loop
	Program 10 Step 64=SCxxx			Save and exit	
	Edit Scene 001 - Edit Scene 250		Pan,Tilt,	Pan=xxx	Save and automatically
			Secne Time	TIME=xx.xs	return
		Input By Outside			manual scenes edit
	Rec. Controller	XX~XX			Automat. scenes rec



9 MENU FUNCTIONS:

9.1 Function Mode

9.1.1. DMX address setting

This function is used to set or adjust the fixture's starting DMX address. Every device controlled by DMX has to have a unique starting address. The addressing feature is what allows DMX to function properly. The DMX address of a fixture is what allows it to communicate with a controller properly. The DMX addressing also allows the fixture to ignore any DMX information coming from the controller that is not meant specifically for the fixture. Because each fixture is connected in a daisy-chain fashion it is imperative to assign a proper and unique starting DMX address to each and every fixture. The DMX address is non-destructive and will remain in the fixture's memory even when the power to the unit is switched off. Memory is backed-up and retain by an internal power source that should last about five years. For proper DMX addressing see Section 10/Page 32 of this user manual.

9.1.2. Display the DMX 512 value of each channel

With this function you can display the DMX 512 value of each channel. The display will automatically readout the changing DMX values as they are received.

9.1.3. Slave setting

With this function, you can define the device as slave for operation in Master/Slave mode.

9.1.4. Auto Program

This function allows the internal programs to run. The desired program is selected in the "Select program" section of the control menu. You can set the number of steps under "Edit program". You can edit the individual scenes under "Edit scenes". With this function, you can run the individual scenes either automatically, i.e. with the adjusted Step-Time.

9.1.5. Music control

With this function, you can run the internal program via sound.



9.2 Information:

9.2.1. Time information

Current time

This function displays the running time of the fixture from the last power on. The display shows "XXXX", where "XXXX" represents the number of hours the fixture has been running. This counter is automatically reset after every power-on.

Total Run Time

This function tracks the total running time of the fixture from the very first start-up. Where "XXXX "represents the total number of running hours. This time is none destructive and will remain in the fixtures memory indefinitely.

Total Lamp Time

This function tracks the total number of lamp running hours. Where "XXXX" represents the number of hours the lamp has been running. This counter should be reset after every lamp change.

Lamp off time

This function displays the running time of the lamp from the last power on. The display shows "XXXX", where "XXXX" represents the number of minutes the lamp has been running since it was last struck. This counter is automatically reset after every power-on.

Clear lamp time

This function resets the lamp "ON" time to zero. Please reset the lamp "ON" time at every lamp replacement. This procedure tracks the lamp running time so the lamp can be replaced at the end of it's recommended duty cycle.

- Select "Clear lamp time" in the system menu.
- The LCD will display "ON" or "OFF." Were "ON" will reset the lamp time.
- Press enter to confirm.
- Press the Mode/Esc-button to return to the main menu.



9.2.2. Temp. Info.

Base Temp – This function will display the base temperature of the fixture.

Head Temp – This function will display the head temperature of the fixture.

9.2.3. Software version

This function will display the current operating software version of the fixture.

- Select "Software Version" in the system menu.
- Press enter to confirm.
- The LCD will read "V-X.X", "X.X" represents the version number, e.g. "V-1.0", "V-2.6".
- Use the UP and DOWN buttons to toggle through the software version of different IC's.
- Press the Mode/Esc-button to return to the main menu.

9.3 Lamp Control:

9.3.1. Lamp on/off

With this function you can switch the lamp on or off via the Control Board.

- Select "Lamp on/off" by turning the LCD controls.
- Press the LCD controls, the display shows "ON" or "OFF".
- Turn the LCD controls to select "ON" if you wish to strike the lamp or "OFF" in order to switch it off.
- Press "ENTER" to confirm.
- Press the Mode/Esc-button in order to return to the main menu.

9.3.2. Automatic Lamp On

With this function you can select if the lamp will be switched on when switching the power on. Select "ON" by turning the LCD controls if you wish to enable this function or "OFF" if you don't.

9.3.3. Lamp on via external DMX controller

With this function you can select if you can switch the lamp on via an external controller. Select "ON" by turning the LCD controls if you wish to enable this function or "OFF" if you



don't.

9.3.4. Lamp off via external DMX controller

With this function you can select if you can switch the lamp off via an external controller. Select "ON" by turning the LCD controls if you wish to enable this function or "OFF" if you don't.

9.3.5. Lamp Off if no DMX

With this function you can select to switch off the lamp off automatically if there is no DMX signal). Select "ON" by turning the LCD controls if you wish to enable this function or "OFF" if you don't.

9.3.6. Lamp on at temp.

With this function you can set the inside temperature from which the projector will strike the lamp after an automatic lamp shut off.

9.3.7. Lamp off at temp.

With this function you can set the inside temperature at which the projector will automatically switch the lamp off. Turn the LCD controls to select the maximum inside temperature between 80°C and 139°C. Inside temperatures below 90°C are not critical. 90°C and more should lead to the lamp being switched off. Please note that the outside temperature should not exceed 45°C.

9.4 Personality:

9.4.1. Status setting

- A. Address via DMX This function allows the DMX address to remotely be adjusted from a DMX console. This setting requires special settings for both the controller and the fixture. RDMX is on by default. For operational instructions please see Section 10/Page 32 of this manual "Remote DMX addressing."
- **B.** Run if no DMX This function dictates how the fixture will function if it looses DMX signal during normal operation. The default function is set to hold, in which



the fixture will lock into the last DMX signal it received and remain in that position until it is turned off or begins receiving a new DMX signal. If the fixture is turned on without any DMX signal, the fixture will automatically go in to sound-active mode. Available settings are: "Close" – Shutter flags will close. "Hold" – Fixture will remain at it's last settings. "Auto Program" – Fixture will go into stand-alone mode, running the built-in program. "Music Control" – The fixture will go into sound-active mode.

- **C. Pan Reverse -** This function allows you to invert all pan movements. Use the Up and Down buttons to turn this function On and Off. Press the Enter button to accept the change or the Mode button to cancel and return to the main menu.
- **D. Tilt Reverse -** This function allows you to invert all tilt movements. Use the Up and Down buttons to turn this function On and Off. Press the Enter button to accept the change or the Mode button to cancel and return to the main menu.
- **E. Fine resolution** This function changes the DMX channel operation from 8bit to 16bit.
- **F.** Pan Degree This function changes the maximum Pan resolution from either 540° or 630°. The default function is 540°.
- G. Feedback This function turns the feedback correction on or off. This function is set to on as default.
- H. Movement Speed This function changes the order of the DMX channels to more closely match similar fixtures from different vendors, thus allowing the user easier functionality when programming. There are four different mode variations.
- I. Mic Sensitivity This function make the internal microphone more or less sensitive to sound. This function only works in conjunction with the sound active modes. The default setting is 70% and setting range from 0 % to 99 %.
- **9.4.2. Service Settings** These adjustments and settings should only be performed by a technician familiar with the functionality this fixture. Incorrect setting of these

28



functions may result reduced performance or damage to the fixture.

Service Password: The correct password must be entered before attempting wheel calibration, changing fan voltage, or changing the gobo speed.

Fan Voltage: This function will change the fan voltage from either "Low" or "High." Low will send normal voltage to the fan, for normal operation. High will send slightly higher voltage to fans that allows the fans to operate at higher than normal speeds. This setting should only be used in extreme cases of higher than normal temperatures. Using the fans in "HIGH" mode will decrease fan life over time. Low is the default setting.

Gobo Speed: This function will change the speed at which the gobo wheel moves. This function allows Design Spot 575Bs and Design Spot 250s to be implemented together in the same rig. There are two different settings, "Quick" and "Slow." Slow will move the gobo wheel at a speed that matches the first generation Design Spot 250. The "Quick" setting will advance the wheel at a new, faster rate than the original Design Spot 250. "Quick" is the default setting.

- 9.4.3. Fans Control This function is used to change the functionality of the internal cooling fans. The available selections are: 1) "AUTO" The fans will automatically switch between low and high speeds depending on the internal operating temperature. 2) "HIGH" The fans will run in high-speed mode regardless of operating temperature. 3) "LOW" The fans will remain in low speeds regardless of internal operating temperature.
- **9.4.4. Temperature C/F** This function changes the temperature unit readout from either the temperature Celsius or Fahrenheit.
- **9.4.5. Initial effect -** With this function, you can adjust with which value the respective channels will start.
- **9.4.6. Restore Default -** With this function you can restore the factory settings of the device. All settings will be set back to the default values (shaded). Any edited



scenes will be lost.

9.5 Reset Functions:

- **9.5.1** Reset All: This function will reset all internal motors to the home position.
- **9.5.2** Reset Pan and Tilt: This function will only reset the pan and tilt motors to the home position.
- **9.5.3** Reset Colors: This function will only reset the color wheel and the CMY filter motors to the home position.
- **9.5.4 Reset Gobos:** This function will only reset the gobo wheels to the home position.
- **9.5.5 Reset Shutter:** This function will only reset the blackout shutter to the home position.
- **9.5.6** Reset Others: This function will reset all other motors to the home position.

9.6 EFFECT ADJUST:

- 9.6.1 Test Channel This menu function allows the user to select each individual fixture channel and test it's function independently from the control board.
- 9.6.2 Lamp adjustment (manual control) This function readies the fixture for lamp optimization in a simple single step procedure. This function will center the pan and tilt motors while at the same time open the shutter and bring the dimmer to 100%. The pan and tilt function will still operate if the fixture needs to be positioned to a flat clear surface.
- 9.6.3 Calibrate values This function should only be used by a qualified technician. This function allows a user to make small adjustments to the effect wheels (color, gobo, shutter, etc) to compensate for ware or in the event a sensor has been knocked slightly out of place. Because improper use of this function can result in undesired operation this function has been password protected. The password is 050 and must



be entered each time the calibration menu function is entered.

9.7 USER MODE:

- 9.7.1 User mode This function allows the user to create user defined channel orders allowing the fixture to match the channel order of other fixtures on the market for easier operation. A total of three user modes may be configured: User Mode A, User Mode B, and User Mode C.
- **9.7.2 Edit User mode** This function allows the user to make the actual changes in the user-defined modes that are accessed through the previous function.

9.8 EDIT PROGRAM:

- 9.8.1 Select program This function allows the user to select one of ten of the user defined built-in programs. This program is then accessed in "Function Mode" under "Program Bun."
- **9.8.2 Edit program** This function allows the user to edit the built-in programs.
- **9.8.3 Edit Scenes** This function allows the user to edit or define the actual scenes that are stored in the user defined built-in programs that are accessed in the previous step.
- 9.8.4 Rec Controller The Design Spot 575B features an integrated DMX recorder by pre-programmed scenes can be transmitted to the fixture via any standard DMX controller. This function allows those scenes to be stored in to the fixture's built-in memory and then subsequently used to create user-defined programs.



10. DMX ADDRESSING

Setting the DMX address - After the fixture is turned "ON" it will immediately complete a reset process that test all the fixture's functions. When the reset process concludes the LCD will display the fixture's current DMX address. If the fixture is not receiving a DMX signal, the display will flash continuously. To set or adjust a DMX address, please follow the procedure below:

- 1. Toggle through the menu by pressing the Up and Down buttons until the display reads "Set DMX Address." Tap the enter button to make changes to the address.
- 2. While the current three-digit address is flashing use the "UP" and "DOWN" buttons to select a new address. Once the new address has been selected, lock the new address into the fixture's memory by pressing the "ENTER" button.

The DMX address is non-volatile and will remain in the fixture's memory even when the power to the unit is switched off. Memory is backed-up and retain by an internal power source that should last about five years

Remote DMX addressing (RDMX) / **Address Via DMX**- This function allows the DMX address to be changed remotely from a DMX console. This setting requires special settings for both the controller and the fixture. RDMX is on by default. Follow the procedure listed below to access the RDMX functions:

Fixture Settings:

- Access the main menu and use the UP or DOWN to get to the "Personality" menu, then press ENTER.
- 2. Once in the "Personalities" menu, tap the UP or Down to get to the "Status Settings " menu, press ENTER.
- 3. Once in the "Status Settings" tap the UP or Down to get to the "Address via DMX" function and press ENTER.
- **4.** "Address via DMX" is the function that turn the RDMX function on and off.
- **5.** Press the UP button to display "ON" to activate this function, or "OFF" to deactivate this function.
- 6. Press ENTER to confirm.



7. Press MODE/ESC to return to the main menu.

Controller Settings:

- 1. Set the DMX value of channel 1 to a value of 7.
- 2. Set the DMX value of channel 2 to a value of 7 or 8. When channel 2 is set to "7" you can adjust the starting address between 1 and 255. When set to "8" you can adjust the starting address between 256 and 511.
- 3. Use channel 3 to set your desired DMX starting address. *For example:* If you want to set the starting address to 57, set channel 1 to a value of "7," set channel 2 to a value of "7" and use channel 3 to set your address to 57 by selecting a channel value of 57. Example 2: If you want to set the starting address to 420, set channel 1 to a value of "7," channel 2 to "8" and channel 3 to "164" (256+164=420).
- 4. Wait for approximately 20 seconds for the unit to complete the address reset function.



11. OPERATION

Operating Modes: The Design Spot $575B^{TM}$ can operate in several different modes. This next section will detail the differences in the operating modes.

- Auto Program Mode (Master) The fixture will chase through the built-in programs, sending a DMX control signal to all other fixtures connect via DMX cables instruction for a synchronized light show.
- **Auto Program Mode (Stand-alone)** The fixture will chase through the built-in program. This feature is great for store front with custom logos, where as the logos need to be displayed but the use of a controller is unwanted.
- *Music Control Mode (Stand-alone)* The fixture will react to sound, chasing through the built-in programs. Great for small clubs or DJs that do not want to bother with programming.
- Music Control Mode (Master/Slave) You can daisy chain up to 16 fixtures together to get a synchronized light show without the need of an external controller. The fixtures will react to sound, chasing to a synchronized light show.
- **Set To Slave** This function will set the fixture to slave mode for use in either the auto program or music control program modes.
- **DMX control mode** This function will allow you to control each individual fixtures traits with a standard DMX-512 controller such as the Elation® Show Designer 2 or Show Designer 3.
- **Stand-Alone Operation (Auto Program or Music Control):** This mode allows a single fixture to run to the built-in programs with or without sound. Only use this mode when running a single fixture, or when running several fixtures as individuals.
 - Mount your fixture in a secure and stable manner.
 - For functionality without sound control: Access the "Function" menu and select the "Auto Program" function, this will give you access to the "Auto Program" submenu. See page 22 for the menu breakdown. Once in the "Auto Program" submenu select "Alone"
 - For functionality that chases to sound: Access the "Function" menu and select the "Music Control" function, this will give you access to the "Music Control" submenu. See page 21 for the menu breakdown. Once in the



"Music Control" submenu select "Alone"

- 11.2 Master-Slave Operation (Auto Program or Music Control): This function allows up to 16 fixtures to be linked together to provide a synchronized light show without the use of a controller. Only use this when linking several Design Spot 575B together for use without a controller. Any fixture can act as a "Master or a "Slave."
 - Using XLR DMX cables, daisy chain your fixtures together via the XLR connectors. Remember the Male XLR connector is the input and the Female XLR connector is the output. The first fixture in the chain (master) will use the female XLR connector only The last fixture in the chain will use the male XLR connector only. For longer cable runs we suggest a terminator at the last fixture.
 - For the unit functioning as the "Master" unit follow the same procedures listed in the previous Stand-Alone section.
 - For the "Slave" units, access the "Set To Slave" settings in the "Function Mode" menu and assign each slave fixture a designation (Slave 1, Slave 2, Slave 3...etc).
 - 11.3 Universal DMX Control: This function allows you to use a universal DMX-512 controller such as the Elation® Show Designer 2[™] or Elation® Show Designer 3[™] to control head movement, the color wheel, the shutter (strobe), and all other DMX traits. A DMX controller allows you to create unique programs tailored to your individual needs. The Design Spot 575B[™] uses 15 DMX channels. See page 41 for detailed description of the DMX traits. To control your fixture in DMX mode, follow the set-up procedures on pages 17-19 as well as the set-up specifications that are included with your DMX controller. Use the controller's faders to control the various DMX fixture traits. This will allow you to create your own programs.
 - Follow the instruction on page 32 to set the DMX address.
 - Be sure to use a terminator on the last fixture, especially for longer cable runs (more than a 100 feet).
 - For help operating in DMX mode consult the manual that was included with your DMX controller.



12. WORKING WITH BUILT-IN PROGRAMS

The fixture comes equipped with a built-in DMX recorder that allows custom programs to be installed and recalled directly from the fixture's control board. Programs can be created and stored using the fixture's control board or by using an external DMX controller. The following instructions will detail the procedures for using the on-board system menu as well as using a DMX compliant controller.

Memory Statistics:

Quick Access Programs (Program Part): 3

Total Number of Programs: 10

Maximum Number of Steps (Scenes) per a Program: 64

Total Number of Scenes (Steps): 250

Step 1 – Building Scenes.

The control will store a maximum of 250 scenes. These scenes are then used to create the programs. A program can store one or a maximum of 64 scenes. Keep in mind that a scene can only be access when it is stored in a "Program." If you wish to build a static scene (a scene consisting of no movement) for a logo or gobo projection, the scene must be stored inside a program. To build scenes follow the instructions below:

- Access the main menu and toggle to "Edit Programs" which is menu function 8.
- Then tap the "ENTER" button and toggle to "Edit Scenes," menu function 8-3.
- When you get to the "Edit Scenes" function tap the "ENTER" button. The screen will
 then change to Edit Scene 001, this will be menu function 8-3-1. You can then press
 the "ENTER" button to begin to edit scene 1 or use the "UP" and "DOWN" buttons to
 toggle to access scenes 2-250.
- Once in the scene edit screen you have access to the functions listed below.
 Tapping the "ENTER" button will instantly allow you to change the values of the selected function in real time. The values can be adjusted from 0~250. Once you achieved your desired value tap the "ENTER" button once again to automatically lock the value into the scenes memory. You can repeat the procedure for all functions listed below:
 - "Auto Program" Allows access to all 15 of the channel's DMX traits.
 - "PAN" pan movement.



- "PAN-Fine" precision pan movement.
- "TILT" tilt movement.
- "TILT-Fine" precision tilt movement
- "Move Speed" adjust pan and tilt motor speed
- "Gobo Wheel 1" select gobos from gobo wheel 1
- "Gobo Rot. 1" adjust gobo 1 indexing or rotation
- "Gobo Wheel 2" select a gobo from gobo wheel 2
- "Prism" select a prism, prism macro, or frost
- "Prism Rot." adjust the prism indexing or rotation
- "Color Speed" adjust the CMY mixing speed
- "Color Macro" select a built-in color mixing macro
- "Color Wheel" select a color from the color wheel
- "Iris" adjust the iris value
- "Focus" adjust the focus value
- "Strobe" adjust the strobe
- "Dimmer" adjust the dimmer intensity
- "Scene Time" set the hold time for the scene
- "Input By Out" this function will store a scene from an external DMX console. See the next section for scene editing via an external DMX controller.

Step 1B – Building Scenes from an External DMX Controller.

The fixture includes a simple built-in DMX recorder. This recorded allow you to build a scene using your own DMX console and then send that scene to the fixture to be stored inside one of the fixture scene storage banks. Many people may find this procedure easier and quicker than using the on board menu functions as in "Step 1." To store a scene from an external DMX controller follow the procedures below:

- Using your DMX controller build and store scenes as you normally would.
- Once you have built all your required scenes, enter the fixtures main menu
 and toggle to "Edit Programs" "Edit Scenes"
- Using the UP and DOWN buttons to select a scene bank to store your scene.
 You may choose a bank from 1 ~ 250.



- Once you reach your desired bank press the ENTER button and use the UP and DOWN button to reach "Input by Outside"
- Next, select a scene on your DMX console and press the ENTER button on the fixture. The scene should then be stored to the fixtures internal memory EPROM.
- Follow the next section to build a program with your scenes.

Step 2 - Editing Programs.

The control will store a maximum of 10 programs. A program can store one or a maximum of 64 scenes. Keep in mind that a scene can only be access when it is stored inside one of the 10 available programs. Follow the procedure below to build an internal program:

- Access the main menu and toggle to "Edit Programs" which is menu function 8.
- Then tap the "ENTER" button and toggle to "Program 1" menu function 8-2-1.
- When you get to the "Program 1" function tap the "ENTER" button. The screen will then change to Edit Steps 01, this will be menu function 8-2-1-1. Use the "UP" and "DOWN" buttons to toggle through the scenes created in "Step 1." Press the "ENTER" button to add a scene to the program. Tapping the "Enter" button will automatically lock the selected scene into the programs' memory. Repeat the process until all the desired scenes have been added to the program. Each program can store a maximum of 64 scenes.
- To test the program access "Program Test" in the "Program Edit" menu function.

Step 3 – Playing a Program

To initiate a program follow the procedure below:

- Access the main menu and use the "Up" and "Down" to toggle to "Function Mode" and tap the "Enter" button.
- In the next screen select "Auto Program" and tap the "Enter" button.
- There are now two selections, "Master" and "Alone." Select "Master" when running multiple fixtures in a master/slave configuration. See section 11.2 "Master/ Slave Operation" on page 36 for proper set-up instructions. Select "Alone" when running a single fixture or when multiple fixtures in stand-alone mode. See section 11.1 "Stand-Alone Operation" on page 34 for proper set-up instructions.



13. DMX CHANNEL TRAITS:

The chart below details the channel layout for 15 DMX channels (default).

In 8bit mode the "Pan Fine" and "Tilt Fine" channels are not used, thus converting the fixture into a 13-channel DMX fixture.

CHANNEL 1: Pan Movement (max. 630° or 540° User Selectable)

CHANNEL 2: 16bit Pan Movement (pan fine)

CHANNEL 3: Tilt Movement (max. 265°)

CHANNEL 4: 16bit Tilt Movement (tilt fine)

CHANNEL 5: Color Wheel

CHANNEL 6: Gobo Wheel 1 (Rotating)

CHANNEL 7: Gobo Index, Gobo Rotation Speed/Direction (Gobo Wheel 1)

CHANNEL 8: Gobo Wheel 2 (Fixed)

CHANNEL 9: 3-Facet Prism Control

CHANNEL 10: Focus Control Motor (Near ~ Far)

CHANNEL 11: Strobe (0-13Hz), and Shutter close/open function + random strobe

CHANNEL 12: Dimmer (Intensity) Control

CHANNEL 13: Iris (Closed to Open)

CHANNEL 14: Speed Control (Pan/Tilt movement, blackout selection)

CHANNEL 15: Special (Auto program control + lamp on, motor reset, lamp switch off)

DMX channel function and values:

DMX channel functions and values (24 DMX channels):				
Mode/Channel		nnel	Value	Function
St	Ва	Ex		
1	1	1		PAN Movement 8bit :
'	'	'	0-255	Pan Movement
2		2		Pan Fine 16bit
			0-255	Fine control of Pan movement
3	2	3		TILT Movement 8bit :
J	۷	7	0-255	Tilt Movement
4		4		<u>Tilt Fine 16bit</u>
+		+	0-255	Fine control of Tilt movement



				Color Wheel:
			0-13	Open / white
			14-27	Color 1
			28-41	Color 2
			42-55	Color 3
			56-69	Color 4
5	3	5	70-83	Color 5
			84-97	Color 6
			98-111	Color 7
			112-127	Color 8
			128-189	Forwards rainbow effect from fast to slow
			190-193	No rotation
			194-255	Backwards rainbow effect from slow to fast
			.0.200	Color Wheel Fine:
		6	0-255	Split Colors
				Rotating gobos, cont. rotation:
			0-9	Open
			10-19	Rot. gobo 1
			20-29	Rot. gobo 2
			30-39	Rot. gobo 3
			40-49	Rot. gobo 4
			50-59	Rot. gobo 5
6	4	7	60-69	Rot. gobo 6
			70-89	Gobo 1 shake slow to fast
			90-109	Gobo 2 shake slow to fast
			110-129	Gobo 3 shake slow to fast
			130-149	Gobo 4 shake slow to fast
			150-169	Gobo 5 shake slow to fast
			170-189	Gobo 6 shake slow to fast
			190-255	Rot. gobo wheel cont. rotation slow to fast
				Rotating gobo index, rotating gobo rotation:
			0-127	Gobo indexing
7	5	8	128-189	Forwards gobo rotation from fast to slow
			190-193	No rotation
			194-255	Backwards gobo rotation from slow to fast
		9		Rotating gobo indexing Fine
			0-255	Fine indexing
8	6	10		Fixed Gobos:
			0-13	Open/hole
			14-27	Gobo 1
			28-41	Gobo 2
			42-55	Gobo 3

40



			FC CO	Coho 4
			56-69	Gobo 4
			70-83 84-97	Gobo 5 Gobo 6
			98-111	Gobo 6 Gobo 7
			112-127	Gobo 1 shake slow to fast
			128-143	Gobo 2 shake slow to fast
			144-159	Gobo 3 shake slow to fast
			160-175	Gobo 4 shake slow to fast
			176-191	Gobo 5 shake slow to fast
			192-207	Gobo 6 shake slow to fast
			208-223	Gobo 7 shake slow to fast
			224-255	Gobo wheel rotation from slow to fast
		11	0.055	Fixed gobo indexing Fine
			0-255	Fixed gobo Fine indexing
				3 facet rotating prism, Prism / Gobo macros:
			0-3	Open
			4-63	Forwards rotation from fast to slow
			64-67	No rotation
			68-127	Backwards rotation from slow to fast
			128-135	Macro 1
			136-143	Macro 2
			144-151	Macro 3
			152-159	Macro 4
			160-167	Macro 5
9	7	12	168-175	Macro 6
			176-183	Macro 7
			184-191	Macro 8
			192-199	Macro 9
			200-207	Macro 10
			208-215	Macro 11
			216-223	Macro 12
			224-231	Macro 13
			232-239	Macro 14
			240-247	Macro 15
			248-255	Macro 16
10	8	13		Focus:
10		.5	0-255	Continuous adjustment from near to far
		1		Focus Fine:
		14		
		14	0-255	Continuous adjustment Fine
11	9	14 15		Continuous adjustment Fine Shutter, strobe:
11	9		0-255 0-31 32-63	



13
128-159
160-191 No function (shutter open) 192-223 Random strobe effect slow to fast 224-255 No function (shutter open) 12
192-223 Random strobe effect slow to fast 224-255 No function (shutter open)
12 10 16
12 10 16
10
17
17
13
13
13
224-255 Pulse closing slow to fast Speed Pan/Tilt movement: 0-225 max to min speed
Speed Pan/Tilt movement: 0-225 max to min speed 14 12 19 226-235 Blackout by movement
0-225 max to min speed 14 12 19 226-235 Blackout by movement
14 12 19 226-235 Blackout by movement
236-245 Blackout by all wheel changing
246-255 No function
Lamp on/off, reset, internal programs:
0-19 Color & gobo change normal
20-29 Color change to any position
30-39 Color & gobo change to any position
40-59 Lamp on
60-79 Lamp switch off
80-84 All motor reset
85-87 Scan motor reset
88-90 Colors motor reset
91-93 Gobo motor reset
15 13 20 94-96 Shutter & Dimmer motor reset
97-99 Other motor reset
100-119 Internal program 1 (secne1~8 of EEPROM)
120-139 Internal program 2 (secne9~16 of EEPROM)
140-159 Internal program 3 (secne17~24 of EEPROM)
160-179 Internal program 4 (secne25~32 of EEPROM)
180-199 Internal program 5 (secne33~40 of EEPROM)
200-219 Internal program 6 (secne41~48 of EEPROM)
220-239 Internal program 7 (secne49~56 of EEPROM)
240-255 Music Control (scene of Program 1)



14. FUSE REPLACEMENT

Caution: Always replace with the exact same type fuse, unless otherwise specified by an authorized Elation® service technician. Replacing with anything other than the specified part can damage your unit and will void your manufactures warranty.

Warning: If you continue to blow fuses, STOP using the fixture. Contact customer support for further instructions, you may have to return the unit for servicing. Continuing to use the unit may cause serious damage.

Fuse Replacement: Locate and remove the unit's power cord from the main power supply. Once the cord has been removed located the fuse holders located on the side panel near the power input connection. Using a flat-head screwdriver unlock the fuse holder from its' housing by turning the holder in a counter-clockwise direction. Once the fuse holder has been unlocked, pull back on the fuse holder to expose the fuse. Gently pull out the bad fuse and discard of it properly and replace it with an exact match. Reassemble in reverse order.



15. ERROR CODES:

When power is applied, the unit will automatically enter a "reset/test" mode. This mode brings all the internal motors to a home position. If there is an internal problem with one or more of the motors an error code will flash in the display in the form of "XXer" were as XX will represent a function number. For example, when the display shows "02Er," it means there is some type of error with the channel 2 motor. If there are multiple errors during the start-up process they will all flash in the display. For example: if the fixtures has errors on channel 1, channel 2, and channel 5 all at the same time, you will see the error message "01Er", "02Er," and "05Er" flash repeated 5 times.

If an error does occur during the initial start-up procedure the fixture will self-generate a second reset signal and try to realign all the motors and correct the errors, if the error persist after a second attempt a third attempt will be made.

If after a third attempt all the errors have not been corrected the fixture will make the following determinations: 1) 3 or more errors - The fixture cannot function properly with three or more errors therefore the fixture will place itself in a stand-by mode until subsequent repairs can be made. 2) Less than 3 errors - The fixture has less than 3 errors, therefore most other functions will work properly. The fixture will attempt to operate normally until the errors can be correct by a technician. The errors in question will remain flashing in the display as a reminder of internal errors.

Pan Er

(PAN-yoke movement error) This message will appear after the reset of the fixture if the yoke's magnetic-indexing circuit malfunction (sensor failed or magnet missing) or the stepping-motor is defective (or its driving IC on the main PCB). The PAN- movement is not located in the default position after the reset.

Tilt Er

(TILT-head movement error) This message will appear after the reset of the fixture if the head's magnetic-indexing circuit malfunctions (sensor failed or magnet missing) or the stepping-motor is defective (or its driving IC on the main PCB). The TILT- movement is not



located in the default position after the reset.

Color Er

(Color wheel- error) This message will appear after the reset of the fixture if the yoke's magnetic-indexing circuit malfunction (sensor failed or magnet missing) or the stepping-motor is defective (or its driving IC on the main PCB). The color wheel is not located in the default position after the reset.

Rotation gobo Er

(Rotating gobo wheel 1- error) This message will appear after the reset of the fixture if the yoke's magnetic-indexing circuit malfunction (sensor failed or magnet missing) or the stepping-motor is defective (or its driving IC on the main PCB). The Rotating gobo wheel 1 is not located in the default position after the reset.

Gobo Rotation Er

(Gobo Rotation wheel 1- error) This message will appear after the reset of the fixture if the yoke's magnetic-indexing circuit malfunction (sensor failed or magnet missing) or the stepping-motor is defective (or its driving IC on the main PCB). The Gobo Rotation wheel 1 is not located in the default position after the reset.

Prism Rotation Er

(Prism Rotation-wheel error) This message will appear after the reset of the fixture if the yoke's magnetic-indexing circuit malfunction (sensor failed or magnet missing) or the stepping-motor is defective (or its driving IC on the main PCB). The Prism Rotation -wheel is not located in the default position after the reset.

Shutter, Strobe Er

(Shutter, Strobe-wheel error) This message will appear after the reset of the fixture if the yoke's magnetic-indexing circuit malfunction (sensor failed or magnet missing) or the stepping-motor is defective (or its driving IC on the main PCB). The Shutter, Strobe -wheel is not located in the default position after the reset.



Focus Er

(Focus error) This message will appear after the reset of the fixture if the yoke's magnetic-indexing circuit malfunction (sensor failed or magnet missing) or the stepping-motor is defective (or its driving IC on the main PCB). The Focus is not located in the default position after the reset.

Iris Er

(Iris error) This message will appear after the reset of the fixture if the yoke's magnetic-indexing circuit malfunction (sensor failed or magnet missing) or the stepping-motor is defective (or its driving IC on the main PCB). The Iris is not located in the default position after the reset.



16. CLEANING AND MAINTENANCE

The following points have to be considered during the inspection:

- 1. Be sure all screws and fasteners are securely tightened at all times. Lose screws may fall out during normal operation resulting in damage or injury as larger parts could fall.
- 2. There must not be any deformations on the housing, color lenses, rigging hardware and rigging points (ceiling, suspension, trussing). Deformations in the housing could allow for UV radiation leakage. Damaged rigging points or unsecured rigging could cause the unit to fall and serious injure a person.
- 3. All mechanical parts and motors should not show any traces of serious wear and should rotate freely.
- 4. Electric power supply cables must not show any damage, material fatigue or sediments. Never remove the ground prong from the power cable.

Further instructions depending on installation and usage have to be adhered by a skilled installer and any safety problems should be addressed before attempting operation.



We recommend frequent cleaning of the fixture to ensure operational longevity and crisp light output. When cleaning, please use a moist, lint-free cloth. Never use alcohol or solvents.

There are no user serviceable parts inside this fixture with the exception of the lamp. Please refer all other service related issues to an authorized Elation service technician.

Should you decide to service the fixture yourself please order genuine Elation parts directly from Elation.



17. 2-YEAR LIMITED WARRANTY

- A. Elation Professional® hereby warrants, to the original purchaser, Elation Professional® products to be free of manufacturing defects in material and workmanship for a period of two years, (730 days) from the date of purchase. This warranty shall be valid only if the product is purchased within the United States of America, including possessions and territories. It is the owner's responsibility to establish the date and place of purchase by acceptable evidence, at the time service is sought.
- B. For warranty service, send the product only to the Elation Professional® factory. All shipping charges must be pre-paid. If the requested repairs or service (including parts replacement) are within the terms of this warranty, Elation Professional® will pay return shipping charges only to a designated point within the United States. If the entire instrument is sent, it must be shipped in its original package. No accessories should be shipped with the product. If any accessories are shipped with the product, Elation Professional® shall have no liability what so ever for loss of or damage to any such accessories, nor for the safe return thereof.
- C. This warranty is void if the serial number has been altered or removed; if the product is modified in any manner which Elation Professional® concludes, after inspection, affects the reliability of the product; if the product has been repaired or serviced by anyone other than the Elation Professional® factory unless prior written authorization was issued to purchaser by Elation Professional®; if the product is damaged because not properly maintained as set forth in the instruction manual.
- D. This is not a service contract, and this warranty does not include maintenance, cleaning or periodic check-up. During the period specified above, Elation Professional® will replace defective parts at its expense, and will absorb all expenses for warranty service and repair labor by reason of defects in material or workmanship. The sole responsibility of Elation Professional® under this warranty shall be limited to the repair of the product, or replacement thereof, including parts, at the sole discretion of Elation Professional®. All products covered by this warranty were manufactured after January 1, 1990, and bare identifying marks to that



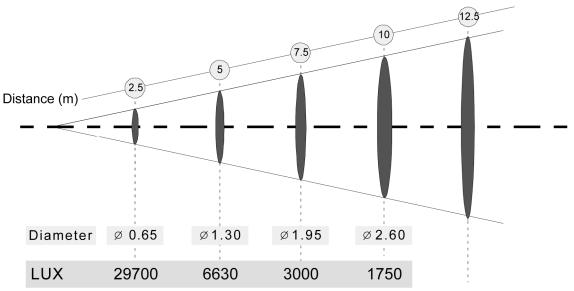
effect.

- E. Elation Professional® reserves the right to make changes in design and/or improvements upon its products without any obligation to include these changes in any products theretofore manufactured.
- F. No warranty, whether expressed or implied, is given or made with respect to any accessory supplied with products described above. Except to the extent prohibited by applicable law, all implied warranties made by Elation Professional® in connection with this product, including warranties of merchantability or fitness, are limited in duration to the warranty period set forth above. And no warranties, whether expressed or implied, including warranties of merchantability or fitness, shall apply to this product after said period has expired. The consumer's and or Dealer's sole remedy shall be such repair or replacement as is expressly provided above; and under no circumstances shall Elation Professional® be liable for any loss or damage, direct or consequential, arising out of the use of, or inability to use, this product.
- G. This warranty is the only written warranty applicable to Elation Professional® Products and supersedes all prior warranties and written descriptions of warranty terms and conditions heretofore published.

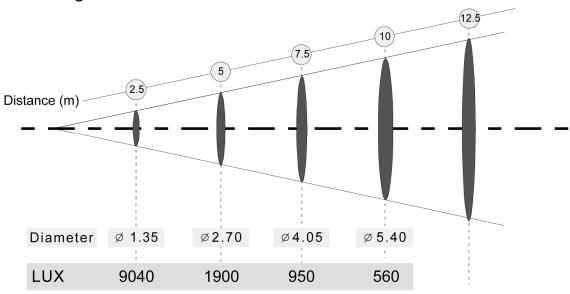


18. Photometric Data:

Beam Angle 15°



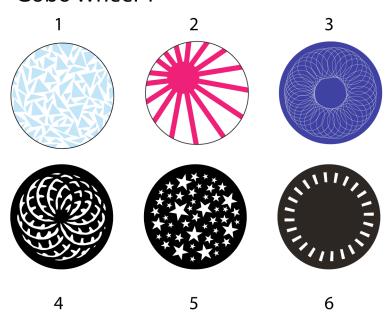
Beam Angle 30°



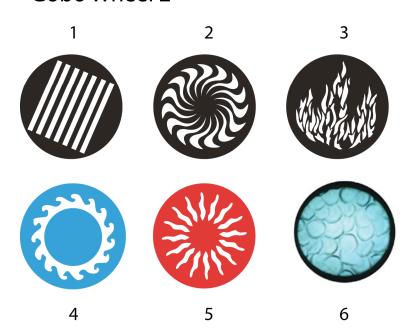


19. GOBOS:

Gobo Wheel 1

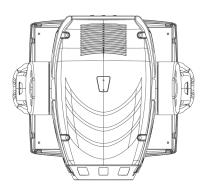


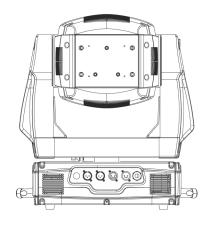
Gobo Wheel 2

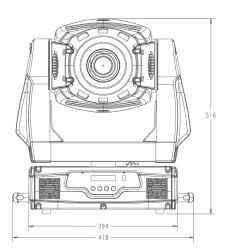


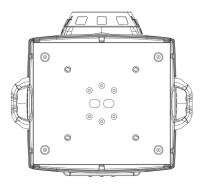


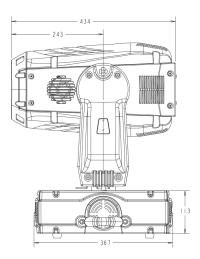
20. DIMENSIONAL DRAWINGS:





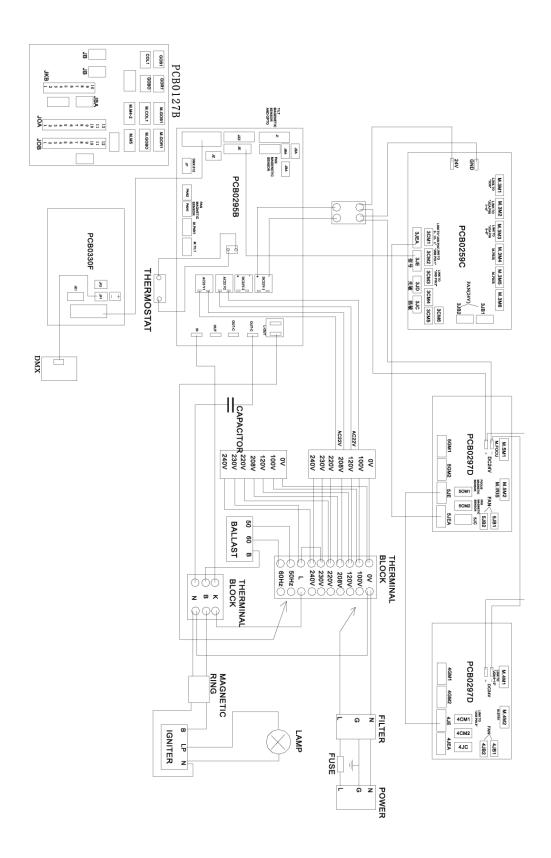








21. CIRCUIT SCHEMATIC





22. TECHNICAL SPECIFICATIONS

Power supply		
Power consumption	90 ~ 260V, 50 ~ 60 Hz	
	800 Watt, 4.5 A, Magnetic ballast, (blind current compensated)	
Fuse protection	120V = 10A/250V, GMA (5x20mm fine-wire fuse)	
	220V = 5A/250V, GMA (5x20mm fine-wire fuse)	
Lamp		
Туре	Philips MSR575/2	
Life time	1000 Hrs	
Color temperature	7200° K	
Luminous flux	49.000 lm	
Optical system		
Parabolic dichroic glass reflector		

Lenses hardened and tempered, anti-reflex coated

Colors

8 dichroic filter plus white, half-color compatible

Gobos

Gobo-wheel 1: 6 interchangeable rotating gobos plus "open", 4 glass Gobos

Gobo-wheel 2: 6 interchangeable fixed gobos plus "open"

Gobo outside diameter 26.9 mm, image size 23 mm

Gobo thickness (max): glass = 1 mm, steel = 0.15 mm

Prism

Rotating 3-face prism, rotating and variable in speed

Shutter / Strobe / Dimmer

Strobe effect with variable speed 1 - 10 flashes per second

Continuously mechanical dimmer 0 - 100%

Motor driven iris from open to close, variable speed, pulse effect

Focus

Motor driven focus from near to far away

Effect wheel

Rotating and indexed Effect wheel, different patterns, exchangeable

DMX Channels

24 (16bit - default) or 22 (8bit - user selectable) or 20

Drive

Standard DMX-512, 3 pole XLR; [+] = Pin 3 [-] = Pin 2 [Ground] = Pin 1 or 5 pole XLR; n/a = Pin 5, n/a = Pin 4, [+] = Pin 3, [-] = Pin 2, [Ground] = Pin 1Starting DMX [001].

Pan / Tilt

Pan - movement	630° in max. 2.0 seconds, 16 bit resolution
Tilt - movement	265° in max. 1.5 seconds, 16 bit resolution
Waighta and Massures	

Weights and Measures



Width of the base	18" / 46cm (Including Handles)	
Length of the base	13.75" / 35cm (Without Handles)	
Width of Head	18.5" / 47cm	
Height (head vertical)	25" / 63.5cm	
Weight (net)	37.6Kgs / 83Lbs	
Operating Noise Levels (Base level 46.8dB)		
Mode: Auto	1m = 55.9 dB	
Mode: High	1m = 56.2 dB	
Mode: Auto	1m = 51.6 db (Lamp off)	

Please Note: Specifications and improvements in the design of this unit and this manual are subject to change without any prior written notice.

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